

# PURO® Fan Filter Unit

## HEPA Fan Filter Module

### Introduction

Purolator introduces the new Purolator Filtration Systems PURO® Fan Filter Unit module (PFFU). This product is a metrically low profile, self-powered HEPA filter fan unit that delivers up to 800 CFM of ultraclean air. Its low profile and modular design provide access to areas with limited overhead clearance, and allow Cleanroom users to group in configurations which best suit their needs. It is ideal for all applications requiring cleanliness levels of ISO Class 4 (Class-10) to ISO Class 8 (Class-10,000).

These highly durable HEPA/Fan modules are most commonly used for new Cleanroom construction, alterations to existing Cleanrooms, and “point-of-use” applications where units are hung or supported directly over critical work area



### Suggested Product Specifications

1. The HEPA filter shall be a sealed mini-pleat in an anodized aluminum frame, with minimum efficiency of 99.99% at 0.3 microns scan tested.
2. The electrical elements shall be housed in an internal box, with a terminal strip for wiring, and external access cover. The motor shall be 115 volt, 1 phase, 60 Hz.
3. Airflow shall be maintained at 70 to 140 FPM ( $\pm 20\%$  measured six inches from filter face)
4. The blower shall be a backward curved motorized impeller for better airflow distribution and quieter operation.
5. An inlet ring shall be provided for improved performance.
6. The 1/4 HP motor shall be an external rotor, PSC type, with a built-in thermal overload protector.
7. Air capacity of the PFFU shall be 800 CFM (nominal).
8. The blower housing shall be constructed of aluminum.
9. Gasketing shall be gray 1/4" x 5/8" closed-cell neoprene placed around the face of the HEPA with dove-tail corners.
10. An internal test port shall allow test challenge to filter and seal.
11. The protective face shall be a steel screen with a white epoxy finish and shall protect the HEPA filter.

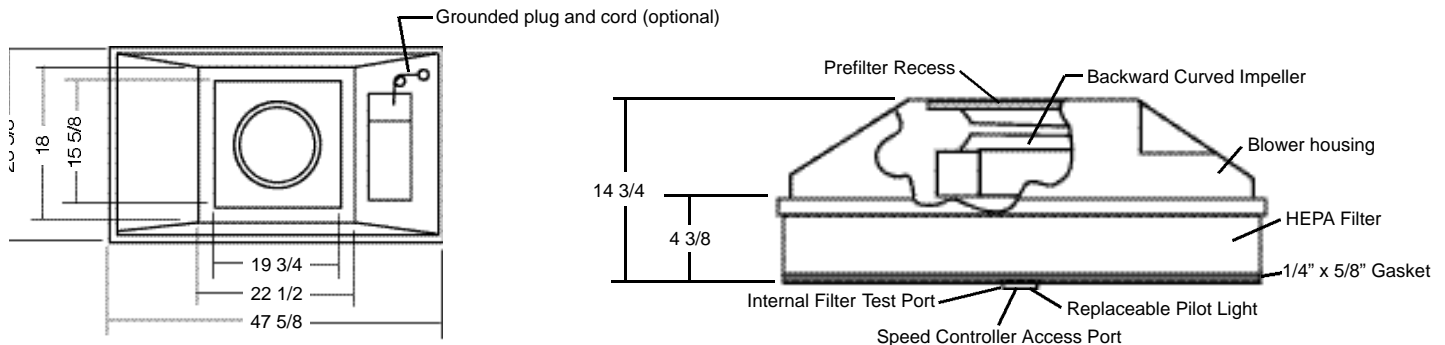
### Construction Features

- Room side speed control adjustment
- Unique securing fastener provides an airtight seal between HEPA and housing
- Anodized aluminum filter frame
- Rigid aluminum blower housing
- Velocity range variable between 70 and 140 FPM (+20%) measured six inches from the filter face
- Ideal for ISO Class 4 through ISO Class 8 applications
- Minimum efficiency of 99.99% at 0.3 microns with optional ULPA Filters 99.9995% at .12 micron.
- Red neon pilot light
- Internal test port
- White protective face screen

## Options and accessories

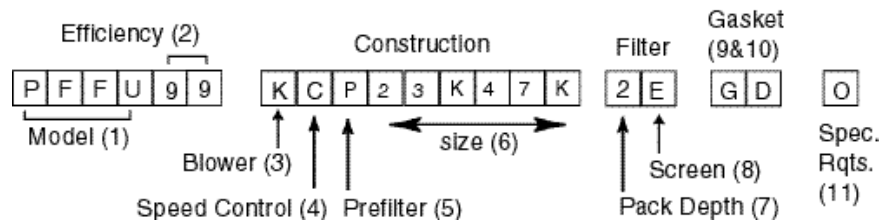
- 277 Volt / 60 Hz motor
- Anodized aluminum protective face
- Intake prefilter

- ULPA filter - 99.9995% efficiency @ MPPS
- Spare prefilters
- HEPA Filter Replacement:  
2x2 = MP2EX99-23K23K-07-U-GG-D-ED-4-00  
2x4 = MP2EX99-23K47K-07-U-GG-D-ED-4-00



## Ordering Information

The design and construction of Purulotor Filtration Systems modules are coded with an assembly part number. The part number is divided into sections consisting of the following information:



Section 1: Type of Product  
PFFU = PURO Filter Fan Unit

Section 2: Filter Efficiency  
99 = 99.99% on 0.3 microns tested with DOP or PAO  
59 = 99.9995% at MPPS  
P9 = 99.99% (scanned) tested with PSLs

Section 3: Blower Section  
K = ABS Plastic  
A = Aluminum housing

Section 4: Speed Control Location  
C = Roomside  
T = Topside  
X = Special

Section 5: Prefilter  
0 = None  
P = Prefilter (16 x 20 x 2 pleat)

Section 6: Size  
23K23K = 23 5/8" x 23 5/8"  
23K47K = 23 5/8" x 47 5/8"

Section 7: Pack Depth  
2 = 2 inch  
X = Special

Section 8: Screen  
E = Expanded metal, white  
0 = None

Section 9: Gasket Material  
G = Gray Closed Cell Neoprene  
O = None

Section 10: Gasket Location  
D = Downstream  
O = None

Section 11: Special Requirements  
0 = None  
10 = 10" inlet  
12 = 12" inlet  
2 = 277 Volt (Standard is 115 Volt)



### AIR CLEANING SPECIALISTS, INC.

826 Horan Drive Fenton, Missouri 63026

Tel: 636-349-4400 Fax: 636-349-0556

Toll Free: 1-800-878-5030

E-mail: [info@aircleaningspecialists.com](mailto:info@aircleaningspecialists.com)

Website: [www.aircleaningspecialists.com](http://www.aircleaningspecialists.com)